

## JOINT VENTURE OF QRTDW | LUDIN CONSULTING LLC



# INCEPTION REPORT

## YOUTH ENTREPRENEURSHIP SUPPORT (YES) II

VERSION 7  
KABUL, AFGHANISTAN  
September 6, 2020

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## A) PURPOSE OF THE PROJECT

Up to 60 young senior students of Electrical Engineering, Civil, Mechanical and Architecture will have received technical, entrepreneurship and leadership training and coaching, and will be empowered with entrepreneurship skills in Renewable Energy and Energy Efficiency.

This section has been copied in its entirety from the RFP Terms of Reference.

The activities covered by the consultant will be as follows:

### I. **Development of a market-oriented and customized Curricula and training of small-scale entrepreneurs**

This part of the assignment will require focusing on the enhancement of the technical and managerial skills needed to develop and implement renewable energy projects. The curricula shall strengthen the capabilities of the entrepreneurs and encompass the following elements:

- The curricula are to be developed in English but presented in Dari and Pashtu and to be adapted to the assignment's needs and to the knowledge status of the interns.
- The consultancy is to develop training materials to support the curricula's content.
- The curricula's content developed for renewable energy technical training should include:
  - a. Solar Photo Voltaic (PV) Systems
  - b. Solar Water Heater (SWH)
  - c. Solar Water Pumping (SWP) utilizing FAI/GIZ toolbox for SPIS advisors
  - d. RE economics and business development
  - e. Best practices
- The curricula's content developed for energy efficiency technical training should include:
  - a. Energy Efficiency Measures and its various forms in Buildings including Thermal energy, Heat transfer, building envelopes, Lighting systems, Plug loads, HVAC
  - b. Energy management
  - c. Data analysis

- d. Energy auditing
  - e. Water and energy efficiency
  - f. Business cases
  - g. Best practices
- The curricula's content developed for Entrepreneurship and Leadership training should include:
  - a. Essentials of Entrepreneurship including Business Ownership, Identifying & assessing the opportunities, Customer value proposition, Market sizing, Competitive landscape, Market research and strategy, International Markets.
  - b. Business plan development.
  - c. Marketing Management, digital and social presence, communication and presentation skills
  - d. Founders, core team & early hires, raising investment
  - e. Financial and Accounting Management and understanding Financial Statements
  - f. Business modeling, growth drivers' assessment, and development
  - g. Organizational Development and Change, Leadership and Decision Making

## **II. Conduct Training and Coaching of the YES participants:**

The participants of the program will be selected in a merit-based selection process. The consultancy is to commence a combination of online written test and one-on-one interview sessions. The JV Consultant will identify about 400 potential candidates and perform the necessary document reviews and online testing to select 60 candidates, who will be interviewed online for final candidate selection. Additional 30 highest scoring candidates will be placed on a reserved list which will be called upon if any of the original 60 candidates not meet the qualifications. The training shall be delivered based on advance adult learning techniques and methodologies, making the online classes interactive enough for the participants to learn all the relevant lectures and benefit from site visits and practical training accordingly. Because of social distancing requirements imposed by the COVID-19 pandemic, online classes should be taken into consideration. Moreover, the participants will be given a 6-month training and internship contract (with benefits) by the GIZ-ESIP. The interns will be assigned to work in energy sector institutions, including policymakers, regulators and implementers of energy projects (e.g. ESRA, DABS, MRRD, AREU and private companies, CRIDA, MUDL, KM, ANSA, MAIL, NEPA, etc.) to receive practical training. The consultancy is henceforth tasked to liaise with host institutions and develop the program content for the interns. The consultancy is also bound to follow up with the interns, organize two meetings at minimum throughout the practical work with each individual intern, and conduct

several assessments throughout the period of internship to assure the interns are involved with the activities of the respective host institution and the technical training are in line with the work scope of the host institution, the consultancy shall also organize and arrange regular meetings with the focal points of the host institutions and shall resolve any logistical issue that may be required. Moreover, the consultancy shall provide all relevant reports and documents related to the interns' full-time contribution to the program. At the end of the program, the consultancy shall organize a business summit/fair where YES II participants can present their business plans and ideas to local organizations and institutions, thought leaders and financial institutions.

Upon the completion of the training, the consultancy shall support and follow up the participants to streamline the PiO exercise by attending some of the training and providing an assessment report.

## B) APPROACH/STRATEGY

The program shall be implemented taking into consideration the following key 16 deliverables:

- 1) Selection criteria
- 2) Application forms
- 3) Identifying participants
- 4) Drafting and signing MoUs with ESRA, DABS, MRRD, AREU, CRIDA, MUDL, KM, ANSA, MAIL, NEPA
- 5) Drafting contract between ESRA and Intern
- 6) Work Plans for Practical Work
- 7) Designing PR material
- 8) Developing of customized online training platform
- 9) Developing curriculum and customized training manuals
- 10) Training of trainees
- 11) Site visits
- 12) Internships
- 13) PiO program – “Pass it On”
- 14) Business Summit
- 15) Certificates
- 16) Reports by Trainees forwarded to ESRA and GIZ
- 17) Final Report

Specifically, the deliverables shall be planned and undertaken as follows:

### 1) Selection criteria

Minimum requirement for candidates to join the program:

- a. Must have completed four-year degree program in electrical engineering, civil, Mechanical, architects and energy engineering.
- b. Must have graduated during the past 12 months.
- c. Must be fluent in written and spoken English to be verified by graduation from language courses and through in-person interview.

Specific requirements shall be as follows:

In partnership with GIZ and extensive marketing including social media outlets, ACBAR.org and Jobs.af website and various other outlets, the JV Consultant will identify about 400 potential candidates and perform the necessary document reviews and

online testing to select 60 candidates, who will be interviewed online for final candidate selection. The following key steps will be undertaken to carry out this task:

- a. All steps involved in the process are directly and immediately affected by the COVID-19 pandemic response and its social distancing guidelines. As such in person testing, interviews and other related activities will be avoided, where possible.
- b. An online test will be prepared with questions that relate to the requirements of the program. Three categories of each ten questions will be prepared to gauge knowledge of the participants. The first category will be less complex, the second set more complex and the third category most challenging with the intent of picking the top qualified participants.
- c. Testing shall be carried out using a dedicated platform on the Yes2.org website, which will have questions imbedded into it. The page will be password protected and opened during the test period. All applicants will be tested and 60 candidates with highest scores will be invited for an online interview. If any of the top finishing participants demonstrate weakness in language skills or are evidently not as qualified as the testing had shown or are not able to supply the documents and certificates to verify their education qualifications, then the next person in line on the reserved list as described under section II will be interviewed until such time that the sixty candidates are identified.
- d. MS Teams shall be the preferred platform used to undertake face-to-face interviews. In case of technical problems with connectivity, as estimated by the project team, Zoom may also be used to carry out training, provided all material exchange, documents and related items will be channeled through the eLearning platform on the Yes2 website.
- e. The test date and time will be agreed to with GIZ and the candidates will be invited to participate via MS Teams or Zoom.

## **2) Application forms**

The following key criteria are relevant for identifying the trainees:

- Personal information
- Educational qualifications,
- Geographic location.
- Language capabilities
- Previous experiences, including internships

Application forms shall be available to the applicants via a link on the advertisement through ACBAR website, Jobs.af and others, the social media site or other forms of communication, including via links with relevant Universities.

**Application Form  
Specialized Post Graduate Diploma  
Youth Entrepreneurship Support (YES -II)  
Solar Power Engineer**

GIZ/ESIP is sponsoring the Youth Entrepreneurship Support (YES) Program. YES is a knowledge-based and activity-oriented leadership and entrepreneurship training program for Afghan youth. YES-II helps university graduates to deepen their technical skills as well as leadership and entrepreneurship skills and knowledge with particular emphasis on solar power. A combination of in-class training, site visits and internship activities will be used to achieve the set objectives.

To evaluate your interest and basic qualifications, please fill out the below form:

<b>Personal Information:</b>	
First Name:	Last Name:
Date of Birth:	Male <input type="checkbox"/> Female <input type="checkbox"/>
City of Birth:	Father's Name:
Address:	City of Residence:
	Phone #:
	E-Mail:

<b>Education Information:</b>
<u>Bachelor's Degree</u>
University's Name:
Degree Program:
Year of Graduation:

<b>Other Skills</b>



Additional Training:	
Name of Institution: Title of Training: Duration of Training: Date completed:	Name of Institution: Title of Training: Duration of Training: Date completed:
Name of Institution: Title of Training: Duration of Training: Date completed:	Name of Institution: Title of Training: Duration of Training: Date completed:
Name of Institution: Title of Training: Duration of Training: Date completed:	Name of Institution: Title of Training: Duration of Training: Date completed:

Language Skills:				
	Excellent	Good	Some	None
English	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dari	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pashtu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Work/Internship Experience:	
<u>Most Recent:</u> Company Name: Position: Duration: From            To Responsibilities: 1. 2. 3. 4.	<u>Experience/Internship:</u> Company Name: Position: Duration: From            To Responsibilities: 1. 2. 3. 4.
<u>Experience/Internship:</u> Company Name: Position: Duration: From            To Responsibilities: 1. 2.	<u>Experience/Internship:</u> Company Name: Position: Duration: From            To Responsibilities: 1. 2.

3.	3.
4.	4.

**PROGRAM COMMITMENT:**

This training and internship/exposure is 6 months in length. The first two months will stand for theory classes consisting of technical classes, leadership, entrepreneurship, etc. while the next four months will stand for practical internship and exposure to gain practical experience of the renewable energy sector.

***By signing below, I give consent to this program and the purposes set out above***

- ***I commit to be available for this program over the next 6 months.***
- ***I commit to be available for assessment of the program up to six months after completion of this program.***

***Signature:***

***Date:***

***(E-signature is okay)***

Note: Please e-mail your application to [YES-Application@qrt dw.com](mailto:YES-Application@qrt dw.com)

**Overflow Page:**

*To be used if you wish to share more education, training or experience information*

### **3) Identifying participants**

All graduates meeting the selection criteria shall be provided access to apply or the program. Participants will be able to apply directly or use any of the following means of advertisement to apply for the program.

- a. Universities may recommend potential participants through their lists of last year's graduates.
- b. Online advertisement through Social media will attract more applicants.
- c. ACBAR website
- d. Jobs.af website and other similar sites.

### **4) Drafting and signing MoUs with ESRA, DABS, MRRD, AREU, CRIDA, MUDL, KM, ANSA, MAIL, NEPA**

The following activities shall be undertaken:

- a. A draft MoU will be formulated and discussed with GIZ to incorporate their inputs.
- b. A list of relevant entities will be prepared with whom MOUs will be signed.
- c. They will be contacted to initiate discussion on their participation in the program.
- d. MoUs will be signed with each entity separately.
- e. Implementation of agreements as described in the MoU will be monitored.

### **5) Drafting contract between project government counterpart and Intern**

The following activities shall be undertaken:

- a. Draft contract prepared.
- b. GIZ input received.
- c. Draft contract revised and finalized.
- d. Government counterpart input will be sought.
- e. Final contract between Government counterpart and Intern will be prepared.
- f. All interns sign contract with Government counterpart.
- g. Contract implementation by both sides will be monitored.

## **6) Work Plans for Practical Work**

The following activities shall be undertaken:

- a. A detailed work plan will be prepared
- b. Work plan will be discussed with GIZ and finalized.
- c. Work plan will be described to all trainees upon orientation into the program.
- d. Workplan will be discussed with companies, organizations, agencies and Ministries where interns will be trained.
- e. Workplan will be implemented.
- f. Meeting objectives of the workplan will be reported on.

## **7) Designing PR Material**

The following activities shall be undertaken:

- a. Website development
  - i. Structure of a website will be developed in collaboration with GIZ
  - ii. Website domain will be identified and registered.
  - iii. Website will be developed.
  - iv. Online training platform will be incorporated into the website with off-the-shelf live session tool incorporated into the platform through a dedicated link.
  - v. Website hosting initiated.
  - vi. Email accounts for all interns will be prepared
- b. Presentations in different cities
  - i. A power point presentation on the program will be developed.
  - ii. GIZ input will be received and reflected in the contents of the PPT.
  - iii. Presentations will be made at each one University in major provinces such as Kabul, Herat, Nangarhar, Mazar and Kandahar.
  - iv. Findings and outcomes will be reported on.
- c. Success stories documentary
  - i. A storyline will be developed for a documentary of achievements of the YES II program.

- ii. A documentary expert will be hired to develop the screenplay for the documentary.
  - iii. Videographers will be assigned to accompany a number of most promising candidates from start of the program until its conclusion.
  - iv. A 15-minute documentary will be prepared and finalized for broadcast via website and social media.
  - v. A 3-minute short form of the same documentary will be prepared.
- d. Printing posters, banners etc. and display in different cities
- i. Posters and banners will be designed and printed upon advice and approval of GIZ.
  - ii. Locations will be identified in Kabul and key cities for their display.
  - iii. Posters and banners will be displayed as per agreement.
  - iv. Total of 300 posters and 20 banners will be printed.
- e. Designing yellow modules, i.e. stories of participants and featuring them on the website.
- i. A standard format will be developed for highlighting each Intern.
  - ii. For every intern a one-page bio and key achievement story will be developed.
  - iii. Some key quotes from the Intern and others involved with him/her will be incorporated.
  - iv. The information will be posted on the YES webpage.

## **8) Developing Customized Training Platform**

The JV will work with technology experts and online training specialists to develop custom made online training platform with a combination of cloud supported data management and off-the-shelf broadcast capability with real-time interactivity and document sharing mechanisms. The online training platform will be incorporated into the website, so that trainees can log onto the website and gain immediate access to training materials, including training modules, videos, PowerPoints and other related documents can be accessed by the trainees during the training and after its completion. The website will also provide them access to live class sessions and chatting opportunities with each other through a class and program forum as well as directly with the instructors on a real-time basis.

## 9) Developing Curriculum and Customized Training Manuals

Three sets of manuals shall be developed to cover the areas of renewable energies, energy efficiency in buildings as well as entrepreneurship and leadership. Each manual is custom developed and relates to issues of relevance for Afghanistan. LC-QRTDW JV will utilize its highly qualified engineers based in Afghanistan and overseas to provide the critical material for the training manuals. Whereas international experts will primarily focus on curriculum development, Afghan experts will deliver the training in local languages to ensure smooth and effective communication of the instruction material. Afghan trainers will be trained instructors and will be able to deliver the prepared material in a competent and effective manner. The same engineers will also conduct the training so that a smooth flow of information from manual to classroom can be achieved. Their work will be guided by highly experienced international curriculum developers, who will be available for advice and guidance.

The specific training manuals will include the following key areas:

### *a. Renewable Energy Systems:*

Training shall include the following key areas:

- I. Solar Photo Voltaic (PV) Systems
- II. Solar Water Heater (SWH)
- III. Solar Water Pumping (SWP)
  - a. Fundamental of irrigation and water resource management
  - b. Economics of solar irrigation
  - c. Installation quality and maintenance of solar pumping systems
  - d. Content will be aligned to: [https://energypedia.info/wiki/Toolbox on SPIS](https://energypedia.info/wiki/Toolbox_on_SPIS)
- IV. RE economics and business development including regulating tariffs, maintenance of grid-connected & individual RE plants and economic
- V. Best practices

For each of these areas, training will include site assessment, system sizing, and design of system using manual design parameters as well as PVSyst design software. In addition to design, developing bill of quantities, procurements of parts from Afghanistan and overseas, system pricing as well as system installation, commissioning, operation and maintenance shall also be part of the curricula. Thus, the graduate will have developed a good understanding of the complete value chain for working with these four systems.

*b. Energy Efficiency for Buildings:*

Energy efficiency in the developed world has a very different dimension than in Afghanistan. However, in both cases, the objectives are the same, namely to use existing technologies, materials, habits and approaches to minimize the use of energy in a building. Traditional construction material such as clay and mud-bricks are significant tools to reduce energy consumption in a building. Also using advanced construction technologies such as stabilized compressed earth bricks are very useful in reducing energy consumption. Traditional heating and cooling systems coupled with passive solar can enhance energy saving within a building. In addition to these, minimizing use of hot water with electric boilers and maintaining reasonable habits in leaving lights on/off have significant cumulative effects on energy efficiency within a building. Within the context of these considerations, the following critical areas will be further developed and enhanced through effective training manuals and curricula:

- i. Energy Efficiency Measures and its various forms in Buildings including Thermal energy, Heat transfer, building envelopes, Lighting systems, Plug loads, HVAC
- ii. Energy management
- iii. Data analysis
- iv. Energy auditing
- v. Water and energy efficiency
- vi. Business cases
- vii. Best practices

The curriculum will be developed with hands-on exercises, description of case studies, data collection, processing and analysis tools and mechanisms and associated factors. All aspects of utilities such as water, electricity, gas and related areas will be covered in the efficiency management system. Additionally, best practices from historic context of Afghanistan, which can be adapted to present day conditions will be elaborated on. Experiences and best practices from the regional markets, including Central, Southeast Asia, the Middle East will be used to demonstrate effective ways of achieving energy efficiency within buildings. In addition to these, modern global programs and activities for energy efficiency will also be incorporated into the curriculum in order to offer an all-inclusive understanding of the subject matter.

*c. Entrepreneurship and Leadership*

Not every engineer is a born business leader. However, every engineer has the potential to be a very successful business leader, if he/she has the tools and training necessary to do the right thing at the right time. The entrepreneurship and leadership training component of the program will provide the tools and training to ensure that the candidates can be successful business leaders as well. It should enable them to think of ideas and then know how to develop a successful business around those ideas and excite others to invest in their ideas. In order to do these, and then create sustainably operational companies, training in the following areas are necessary:

- i. Essentials of Entrepreneurship including Business Ownership, Identifying the opportunities, Customer value proposition, Market sizing, Competitive landscape, Market research and strategy, International Markets.
- ii. Business plan development.
- iii. Marketing Management, digital and social presence, communication and presentation skills
- iv. Founders, core team & early hires, raising investment
- v. Financial and Accounting Management and understanding Financial Statements
- vi. Business modeling, growth drivers' assessment, and development
- vii. Org. Development and Change, Leadership and Decision Making

The curricula will be developed based on interactive approach, class discussions, case studies, developing formats for documents and analysis of existing simple as well as slightly more complex financial statements and business plans. The curriculum will be developed with the full understanding that the students are with engineering and not business of finance backgrounds. Hence, concepts will be explained carefully and understandably, using hands-on approach, group discussions and other related factors.

The draft curricula will then be presented to GIZ and their input collected as well as incorporated to issue the final version to be used by the instructors.

## **10) Training of Trainees**

The training shall be geared towards the capabilities and strengths of the trainees. If the trainees are weak in certain areas, then the training will need to be adjusted to ensure that they are able to benefit from the program to a maximum level. In some cases, a section of the students is relatively advanced on their understanding of key issues, while



other are not as advanced. The instructors will take into consideration such differences and ensure that all students are able to benefit from the training while the strong ones are not bored, and the weaker ones are not stressed out. The curricula developed by the instructors will have taken such differences into consideration. Since the curricular is developed by the actual instructors, they also have the ability and flexibility to adjust their curricula to ensure that all trainees can equally benefit from the taught material.

Because of the COVID-19 pandemic, training classes will be organized in an online format, while maintaining interactive, hands-on manner. Lectures will be held by the instructors. Discussions will be held to clarify open issues. Lectures will be divided into chapters. Upon completion of each chapter, an online quiz will be held, which will enable the instructor to see the level of understanding of each trainee. At the beginning of each component of the program, e.g. PV Power, Solar irrigation system, solar hot water, Building's energy efficiency chapters, entrepreneurship, a group project will be identified by groups of 5 trainees, which will accompany the trainees through all stages of the training. Upon completion of each chapter and one segment of the training, the groups will present a brief overview of their practical work to the class. Other trainees will be able to ask clarification questions and exchange their views with views and experiences of other groups. At the end of the training, the groups will present their completed projects to the class and the class will grade them for their performance based on established criteria and using an online grading tool. Thus, the newly gained knowledge is internalized, while all trainees will have hands on engagement in the program, preventing free riders from hiding behind other trainees' hard work. It is critical that upon graduation the trainees hit the ground running and will immediately be able to contribute in their learned skill area.

The trainees will be able to log on to the training portal on the YES-II website and access all training materials. They will then utilize a separate platform for the online, face-to-face, real-time communication with the instructor and all other trainees.

The trainees will be divided into groups of ten students (for entrepreneurship training: groups of 15 trainees), who will receive training based on the following modality:

- Applicants will be divided into two groups i.e. the EE group and the RE.
- Most likely the RE group will be more than EE group. The ratio of EE: RE will be 1:2, so that 40 trainees will be assigned for RE and 20 for EE training.
- Training will be done simultaneously for RE and EE
- The training modalities shall be as follows

### RENEWABLE ENERGY GROUP

- The 40 students of RE will be divided in 4 groups (10 students in each group).
- The 40 students will receive six weeks training and each group of 10 students will attend three sessions of 2 hours duration every week for total of 6 hours per week.
- Field work will continue for the balance of the training time. These will be in the form of project works that will start at the beginning of the two-month training and will end with student presentations during the last week.
- Total hours sessions for RE will be 120 hours divided in four sections (Solar electricity, solar hot water, solar irrigation and PVSyst training and assignments).
- Last week will be allocated for PVSyst training

### Solar Power (24 hours – Week 1)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

### Solar Power (24 hours – Week 2)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

### Solar Water Heater (24 hours – Week 3)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

### Solar Irrigation System (24 hours – Week 4)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

PVSyst and Assignments (24 hours – Week 5)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

Group Presentations (24 hours – Week 6)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												
Group 3 - 10 students 2 hrs												
Group 4 - 10 students 2 hrs												

**ENERGY EFFICIENCY GROUP**

- The 20 students of EE will be divided in 2 groups (10 students in each group).
- The 20 students will receive six weeks training and each group of 10 students will attend two sessions of 2 hours in every week.
- Total hours sessions for EE will be 72 for the duration of the training

Energy Efficiency (12 hours – Week 1)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

Energy Efficiency (12 hours – Week 2)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

Energy Efficiency (12 hours – Week 3)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

Energy Efficiency (12 hours – Week 4)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

Energy Efficiency (12 hours – Week 5)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

Group Presentations (12 hours – Week 6)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 10 students 2 hrs												
Group 2 - 10 students 2 hrs												

ENTREPRENEURSHIP GROUP

- The 60 students of EE & RE will be divided in 6 groups (15 students in each group).
- The 60 students will receive two weeks training and each group of 15 students will attend three sessions of 2 hours in every week.
- Total hours sessions for Entrepreneurship training will be 48 hours divided in two sessions every day.

Entrepreneurship (24 hours – Week 1)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 15 students 2 hrs												
Group 2 - 15 students 2 hrs												
Group 3 - 15 students 2 hrs												
Group 4 - 15 students 2 hrs												

Entrepreneurship (24 hours – Week 2)

Groups	Sat		Sun		Mon		Tue		Wed		Thu	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Group 1 - 15 students 2 hrs												
Group 2 - 15 students 2 hrs												
Group 3 - 15 students 2 hrs												
Group 4 - 15 students 2 hrs												

In the unlikely event that social distancing guidelines are removed by the time the training can start, training shall be held in classrooms inside the Kabul Polytechnic University compound, utilizing a combination of online support with modules, videos and other online documents.

## **11) Site Visits**

A site visit shall be organized either in Kandahar or in Herat, depending on availability and relevance. In Kandahar, trainees will be able to visit utility scale solar power plants. In Herat they will be able to visit utility scale hybrid solar and wind power plants. The field trip will be 2-3 days long and will be undertaken via air.

Because of the social distancing requirements of COVID-19, by the time the online training is completed, the Consultants may not be able to organize the site visits. In such case, the site visit will be postponed until such time that it is physically possible.

## **12) Internships**

It is assumed that by the time the training is completed, COVID-19 pandemic related precautionary measures will have been lifted, so that work at government and private company offices will continue as normal. In case the precautions are still in place, the internship component of the program will be postponed until such time that these precautionary measures have been eliminated.

As specified in the terms of reference, “the participants will be given a 6-month training and internship contract (with benefits) by the GIZ-ESIP, the interns will be assigned to work in the energy sector institutions, including the policymakers, regulators and implementers of energy projects (e.g. ESRA, DABS, MRRD, AREU and private companies, CRIDA, MUDL, KM, ANSA, MAIL, NEPA, etc.) for the duration of four months to receive practical training.” LC-QRTDW JV with “liaise with the host institutions and develop the program content for the interns.” During the internship, LC-QRTDW JV “follow up with the interns, organize two meetings at minimum throughout the practical work with each individual intern, and conduct several assessments throughout the period of internship to assure the interns are involved with the activities of the respective host institution and the technical training are in line with the work scope of the host institution.” LC-QRTDW JV will “also organize and arrange regular meetings with the focal points of the host institutions and ... resolve any logistical issue that may be required.” Regular reports shall be generated and documents furnished that describe the internship experience of the trainees. At the conclusion of the internship, a “business summit/fair” will be organized where “YES II participants can present their business plans and ideas to local organizations and institutions, thought leaders and financial institutions.”

LC-QRTDW JV will prepare detailed work plans and schedules for interns' practical work and site visit, including to existing solar, wind and hydro power facilities in different parts of the country.

LC-QRTDW JV will ensure that all travel and transportation arrangements to the site visits, e.g. Kandahar solar power plant(s), and/or Herat solar/wind power plant(s), etc. are taken care of and adequately managed.

“Drafting MoU(s) and liaising with stakeholders/host institutions for the purpose of absorbing/placing the interns as host institutions” will also be managed by LC-QRTDW JV. This will include: e.g. ESRA, DABS, MRRD, AREU and private companies, CRIDA, MUDL, KM, ANSA, MAIL, NEPA, etc.

Drafting and developing the contract between ESRA-Interns will be managed by LC-QRTDW JV, which includes the administrative support, collecting the reports of the interns, validating the reports and liaising with GIZ-ESIP Admin team to process the stipends of the interns on monthly basis

Monthly report and monitoring feedback to the YES interns, these sessions are to be witnessed by ESIP team. Final report and evaluation of all activities shall also be prepared by LC-QRTDW JV.

Upon the completion of the training, LC-QRTDW JV will “support and follow up the participants to streamline the PiO exercise by attending some of the training and providing an assessment report.”

### **13) PiO program – “Pass it On”**

The following activities shall be undertaken:

- a. All training materials will be made available to all trainees.
- b. Each intern will organize a series of training sessions for a minimum of 5 other engineers/students in their organization/institution.
- c. The list of the expected trainees by each student will be prepared and submitted to the Consultants during the theoretical training sessions.
- d. A report of the training shall be prepared by each candidate.

#### **14) Business Summit**

A business summit shall be organized in which companies, government agencies, non-profits and business associations will be invited to participate. Graduates of the program will then be allowed to pitch their business ideas to the audience in 4 minutes utilizing at most 5 slides to make their case. Interns can develop business ideas in groups of 3-6, so that they can also demonstrate their ability to collaborate during the training program. Entrepreneurship training component will provide the necessary guidelines for the interns to prepare effective presentations for the business pitch. The Consultant will guide the trainees through their business plan pitch presentations.

#### **15) Certificates**

During the Business Summit, all participants will receive their participation/completion certificates.

#### **16) Reports by Trainees forwarded to ESRA and GIZ**

Each trainee shall prepare a report on their activities during their internship. Reports will be prepared and submitted at the end of each completed internship component. Report formats shall be developed by the Consultant. Reports will be reviewed, compiled and submitted by the Consultants to ESRA and GIZ.

#### **17) Final Report**

The following activities shall be undertaken:

- a. Final report format shall be prepared in advance.
- b. Final report shall be prepared by the Consultants and submitted to GIZ and ESRA for review and approval

## C) PROJECT SCHEDULE:

### YOUTH ENTREPRENEUSHIP SUPPORT II (10-months)

Actv No.	Activity Name	status	START DATE	END DATE	Aug-20				Sep-20				Oct-20				Nov-20				Dec-20				Jan-21				Feb-21				Mar-21				Apr-21				May-21			
					4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
A	Project Start-up																																											
A001	Signing agreement with GIZ	COMPLETED	23-Aug-20	29-Aug-20																																								
A002	Meeting with GIZ's technical staff to obtain necessary information about the project	COMPLETED	23-Aug-20	29-Aug-20																																								
A003	Preparing inception report	ONGOING	30-Aug-20	5-Sep-20																																								
A004	Receiving GIZ's comments/approval for the inception and submitting the final inception report	ONGOING	6-Sep-20	12-Sep-20																																								
A005	Drafting MoUs for relevant government agency	ONGOING	13-Sep-20	30-Sep-20																																								
B	Curriculum Development and Training																																											
B001	Development of curricula and materials RE and EE	COMPLETED	23-Aug-20	5-Sep-20																																								
B002	Development of curriculum and materials for Entrepreneurship	COMPLETED	23-Aug-20	5-Sep-20																																								
B003	Preparing and documentation for written test and interview framework	ONGOING	8-Sep-20	7-Oct-20																																								
B004	Conducting written test and interview sessions	PLANNED	8-Oct-20	21-Oct-20																																								
B005	All training, coaching, follow up and meetings with the participants	PLANNED	22-Oct-20	7-Nov-20																																								
B006	Online training the YES II participants including the guidance and regular meetings during internship	PLANNED	8-Nov-21	8-Jan-21																																								
B007	Liaising with Gov. Institutions and other stakeholders to sign MoUs & place the interns for practical training	PLANNED	1-Dec-20	8-Jan-21																																								
B008	Exposure visit to Kandahar/Herat	PLANNED	10-Jan-21	16-Jan-21																																								
B009	Start the internship program	PLANNED	20-Jan-21	18-May-21																																								
B010	Preparing the certificates and organizing the business summit/fair for upto 150 guests	PLANNED	24-May-21	27-May-21																																								
C	Design, PR, Pvsyst, Web Development and Work Plans																																											
C001	Website development including three years hosting	ONGOING	30-Aug-20	30-Oct-20																																								
C002	Developing an online platform for delivering training and coaching of the participants	ONGOING	20-Sep-20	30-Oct-20																																								
C003	Designing/Developing PR materials	COMPLETED	23-Aug-20	7-Sep-20																																								
C004	Advertiment of PR materials in various provinces	ONGOING	11-Sep-20	16-Oct-20																																								
C005	Drafting and developing work plans for the interns' practical works	ONGOING	1-Sep-20	30-Oct-20																																								
C006	Provision of Pvsyst Software including installation and trainings	ONGOING	1-Sep-20	15-Oct-20																																								
C007	Regular monthly progress report to GIZ	ONGOING	Last week of every month																																									
C008	Submission of Final Report (full package)	PLANNED	28-May-21	30-May-21																																								